

Equations

1. Solve the equations:

(a) $x + 3 = 10$	(b) $z + 10 = 20$	(c) $x + 2 = 17$	(d) $11 + x = 22$
(e) $y - 20 = 50$	(f) $z - 21 = 30$	(g) $56 - p = 23$	(h) $r - 30 = 60$

2. Solve the equations:

(a) $x - 4 = 10$	(b) $z - 9 = 20$	(c) $x - 6 = 17$	(d) $30 - x = 22$
(e) $y + 10 = 50$	(f) $z + 11 = 30$	(g) $6 + p = 23$	(h) $r + 40 = 60$
(i) $x - 6 = 7$	(j) $16 - f = 6$	(k) $y - 56 = 8$	(l) $15 - x = 6$
(m) $6 + z = 11$	(n) $y + 30 = 30$	(o) $15 + m = 25$	(p) $x + 8 = 16$
(q) $76 - y = 21$	(r) $z - 35 = 75$	(s) $42 - m = 13$	(t) $y - 7 = 23$

3. Solve each equation:

(a) $5x = 60$	(b) $4x = 28$	(c) $7x = 35$	(d) $9x = 72$
(e) $6x = 36$	(f) $2x = 10$	(g) $6x = 72$	(h) $5x = 65$
(i) $7x = 77$	(j) $3x = 21$	(k) $9x = 27$	(l) $6x = 42$



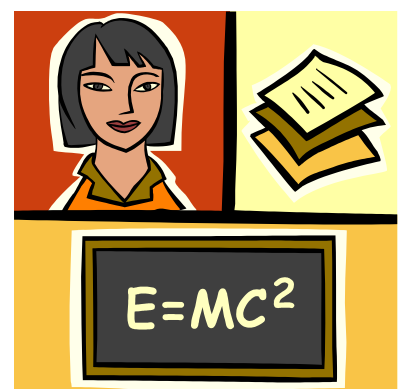
4. Solve the equations.

(a) $3x + 4 = 19$	(b) $2y + 1 = 7$	(c) $6y - 2 = 22$	(d) $3x - 1 = 2$
(e) $3a + 6 = 12$	(f) $4b + 8 = 24$	(g) $6y - 2 = 10$	(h) $10y - 6 = 44$

5. Solve the following equations

(i) $27 + t = 39$	(j) $13 - d = 12$	(k) $29 + p = 29$	(l) $h - 23 = 24$
(m) $10 = w + 3$	(n) $16 = 4 + c$	(o) $18 = 24 - a$	(p) $20 = w - 5$

6. (a) When 5 is added to p the result is 18. Find p.
(b) When 13 is subtracted from x the result is 4. Find x.
(c) When 30 is subtracted from q this leaves 16. Find q.
(d) The product of 8 and x is 72. What number is x?
(e) The quotient of 28 and x is 4. Find x.
(f) The quotient of 63 and z is 9. What number is z?
(g) There are n passengers on a bus. 6 get off at a stop.
If 20 passengers remain on the bus, what number is n?
(h) When m is multiplied by itself the result is 49. Find m.
(i) The sum of y and 13 is 50. What is the value of y?
(j) The product of 9 and z is 45. What is the value of z?
(k) The quotient of 36 and x is 4. What is the value of x?



7. Solve these equations:

(a) $2x = x + 6$

(b) $3y = 16 - y$

(c) $5t + 2 = 2t + 8$

8. Solve:

(a) $x + 9 > 11$

(b) $4y - 5 > 27$

(c) $w + 25 < 29$

(d) $10y + 3 > 3$

(e) $y - 7 > 2$

(f) $52 < 6z - 2$

(g) $3y + 2 > 38$

(h) $14x - 12 < 16$

(i) $3z + 11 > 23$

(j) $2l < 7y + 7$

(k) $5y - 1 < 4$

(l) $10y + 4 > 4$

9. Solve these on the set of numbers $\{ 0, 1, 2, 3, 4, 5, 6 \}$

(a) $x + 8 > 11$

(b) $7y - 45 > 25$

(c) $40 < 6z - 2$

(d) $5y + 2 > 27$

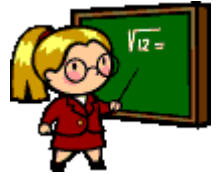
(e) $12x - 12 < 12$

(f) $3z + 2 > 24$

(g) $18 > 5z + 28$

(h) $12 > 6m + 24$

(i) $13x - 2 < 3$



10. I am thinking of a number. Call this number x .

If I add eight the answer is seventeen.

Write an equation to show the problem and find x .

11. Jill has n coins. Her mother gives her 6 more.

She now has 9 coins. Write an equation and solve it to find out how many coins Jill started with.

12. I am thinking of a number. Call this number x .

If I add four the answer is sixteen.

Write an equation to show the problem and find x .